



RECEIVED

DEC 17 2002

TECH CENTER 1600/2900

SEQUENCE LISTING

<110> Grey, Howard
Sette, Alessandro
Sidney, John

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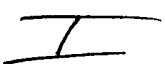
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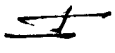
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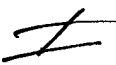
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Cys Phe Pro Glu Ile Phe Gly Lys Ala
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Phe Phe Pro Ser Leu Arg Glu Ala Ala
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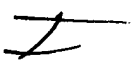
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<221> VARIANT
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<221> VARIANT
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 Xaa Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<210> 377
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Xaa Leu Xaa Xaa Xaa Xaa Xaa Met
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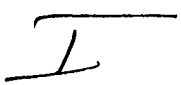
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1 5

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Xaa Met Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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Xaa Xaa Xaa Xaa Xaa Xaa Ala Xaa Xaa
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<221> VARIANT

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<223> Xaa = Ala, Met

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Xaa Xaa Xaa Xaa Xaa Xaa Ala Xaa Xaa

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<222> (9)...(9)

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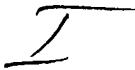
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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

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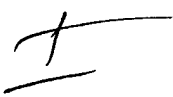
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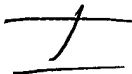
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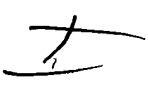
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<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 451
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 452
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met, Asn,
Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (5)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 452
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 453
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met, Asn,
Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (5)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
 <222> (9)...(9)
 <223> Xaa = Any Amino Acid

 <221> VARIANT
 <222> (10)...(10)
 <223> Xaa = Leu, Val, Ile, Ala, Met

 <400> 453
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

 <210> 454
 <211> 10
 <212> PRT
 <213> Homo Sapiens

 <220>
 <221> VARIANT
 <222> (1)...(1)
 <223> Xaa = Any Amino Acid

 <221> VARIANT
 <222> (2)...(2)
 <223> Xaa = Leu, Met, Ile, Val, Ala, Thr

 <221> VARIANT
 <222> (3)...(4)
 <223> Xaa = Any Amino Acid

 <221> VARIANT
 <222> (5)...(5)
 <223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys,
 Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

 <221> VARIANT
 <222> (6)...(7)
 <223> Xaa = Any Amino Acid

 <221> VARIANT
 <222> (8)...(8)
 <223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

 <221> VARIANT
 <222> (9)...(9)
 <223> Xaa = Any Amino Acid

 <221> VARIANT
 <222> (10)...(10)
 <223> Xaa = Ala, Met

 <400> 454
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

 <210> 455
 <211> 10

<212> PRT
 <213> Homo Sapiens

 <220>
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 <222> (1)...(1)
 <223> Xaa = Any Amino Acid

 <221> VARIANT
 <222> (2)...(2)
 <223> Xaa = Ile, Val, Ala, Thr

 <221> VARIANT
 <222> (3)...(4)
 <223> Xaa = Any Amino Acid

 <221> VARIANT
 <222> (5)...(5)
 <223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys,
 Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

 <221> VARIANT
 <222> (6)...(7)
 <223> Xaa = Any Amino Acid

 <221> VARIANT
 <222> (8)...(8)
 <223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

 <221> VARIANT
 <222> (9)...(9)
 <223> Xaa = Any Amino Acid

 <221> VARIANT
 <222> (10)...(10)
 <223> Xaa = Leu, Val, Ile, Ala, Met

 <400> 455
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

 <210> 456
 <211> 10
 <212> PRT
 <213> Homo Sapiens

 <220>
 <221> VARIANT
 <222> (1)...(1)
 <223> Xaa = Any Amino Acid

 <221> VARIANT
 <222> (2)...(2)
 <223> Xaa = Leu, Met, Ile, Val, Ala, Thr

 <221> VARIANT
 <222> (3)...(6)

<223> Xaa = Any Amino Acid

<221> VARIANT

<222> (7)...(7)

<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT

<222> (8)...(8)

<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT

<222> (9)...(9)

<223> Xaa = Any Amino Acid

<221> VARIANT

<222> (10)...(10)

<223> Xaa = Ala, Met

<400> 456

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 457

<211> 10

<212> PRT

<213> Homo Sapiens

<220>

<221> VARIANT

<222> (1)...(1)

<223> Xaa = Any Amino Acid

<221> VARIANT

<222> (2)...(2)

<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT

<222> (3)...(6)

<223> Xaa = Any Amino Acid

<221> VARIANT

<222> (7)...(7)

<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT

<222> (8)...(8)

<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT

<222> (9)...(9)

<223> Xaa = Any Amino Acid

<221> VARIANT

<222> (10)...(10)

<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 457
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 458
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 458
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 459
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 459
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 460
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Val, Ile, Ala, Met

<400> 460
Xaa Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 461
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Val, Ile, Ala, Met

<400> 461
Xaa Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 462
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Val, Ile, Met

<400> 462
Xaa Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 463
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Met

<400> 463
Xaa Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 464
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)

<223> Xaa = Any Amino Acid

<221> VARIANT

<222> (3)...(8)

<223> Xaa = Any Amino Acid

<221> VARIANT

<222> (9)...(9)

<223> Xaa = Leu, Val, Met

<400> 464

Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

<210> 465

<211> 10

<212> PRT

<213> Homo Sapiens

<220>

<221> VARIANT

<222> (1)...(1)

<223> Xaa = Any Amino Acid

<221> VARIANT

<222> (3)...(9)

<223> Xaa = Any Amino Acid

<221> VARIANT

<222> (10)...(10)

<223> Xaa = Leu, Val, Met

<400> 465

Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

10

<210> 466

<211> 9

<212> PRT

<213> Homo Sapiens

<220>

<221> VARIANT

<222> (1)...(1)

<223> Xaa = Any Amino Acid

<221> VARIANT

<222> (3)...(8)

<223> Xaa = Any Amino Acid

<221> VARIANT

<222> (9)...(9)

<223> Xaa = Leu, Ile, Met

<400> 466

Xaa Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

<210> 467
<211> 10
<212> PRT
<213> Homo Sapiens


<220>
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Ile, Met

<400> 467
Xaa Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 468
<211> 9
<212> PRT
<213> Homo Sapiens

 <220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(8)
<223> Xaa = Any Amino Acid

<400> 468
Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Met
1 5

<210> 469
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(9)
<223> Xaa = Any Amino Acid

<400> 469
Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Met
1 5 10

<210> 470
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Met

I
<400> 470
Xaa Met Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 471
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 471
Xaa Met Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 472
<211> 9
<212> PRT
<213> Homo Sapiens

<400> 472

5

Lys Val Ala Glu Leu Val His Phe Leu

1

5
